1. This statement is **Meaningless** because something can’t have a probability that is a negative number.
2. This statement is **True** because if something has a probability of 0.8 its opposite has a probability of 0.2 and 0.8 is four times 0.2 so it is four times as likely to happen as its opposite.
3. (i) is obviously a better option from an intuition standpoint because you are only reliant on one event happening, whereas (ii) requires the same event as (i) to occur as well as an additional event, meaning (ii) will always be less likely then (i).

(i) Probability :

(ii) Probability :

1. (ii) is a better choice from an intuitive standpoint because you are essentially betting on the same thing as (i), however you get a mulligan in the event that bet doesn’t work out.

(i) Probability :

(ii) There are two possible probabilities in this case depending on if the first card was a diamond or not, I will show the probability for both cases:

[First card isn’t a diamond] :

[First card is a diamond] :